

What is claimed is:

- 1           1. A headlight for use by physicians comprising:
  - 2                   a) an adjustable headband for placing on a user's
  - 3                   head;
  - 4                   b) at least two forward-facing lamp housings
  - 5                   disposed adjacent one another proximate a central
  - 6                   position on a front side of said headband; and
  - 7                   c) at least one light emitting diode (LED) disposed
  - 8                   in each of said lamp housings.
- 1           2. The headlight as recited in claim 1, wherein said at
- 2           least two forward-facing lamp housings disposed adjacent one
- 3           another proximate a central position on a front side of said
- 4           headband are independently pivotally affixed thereto, whereby
- 5           light output from each of said at least two LEDs in said lamp
- 6           housings may be converged at a spot a predetermined distance
- 7           forward therefrom.
- 1           3. The headlight as recited in claim 2, wherein said
- 2           lamp housings further comprise means for focusing light from
- 3           said at least one LED.

1           4. The headlight as recited in claim 3, wherein said  
2 means for focusing light comprises at least one reflector  
3 disposed proximate said at least one LED.

1           5. The headlight as recited in claim 4, wherein said at  
2 least one reflector comprises a reflector disposed behind said  
3 at least one LED and a reflector placed forward of said at  
4 least one LED, said reflectors arranged so as to cooperatively  
5 gather light output from said at least one LED and project  
6 said gathered light in a forward direction.

1           6. The headlight as recited in claim 5, wherein said at  
2 least one of said reflectors comprises a substantially  
3 parabolic shape.

1           7. The headlight as recited in claim 2, wherein said  
2 adjustable headband comprises means for adjusting said  
3 headband to fit any user.

1           8. The headlight as recited in claim 2, further  
2 comprising means for controlling light output from at least  
3 one of said LEDs.

1           9. The headlight as recited in claim 8, wherein said  
2 means for controlling light output from at least one of said  
3 LEDs comprises at least one of the devices: a switch, means  
4 for varying the intensity of said at least one LED.

1           10. The headlight as recited in claim 2, further  
2 comprising a battery for supplying power to said at least one  
3 LED disposed in each of said at least two lamp housings.

1           11. The headlight as recited in claim 10, wherein said  
2 battery comprises at least two batteries.

1           12. The headlight as recited in claim 11, wherein at  
2 least one of said at least two batteries is attached to said  
3 headband.

1           13. The headlight as recited in claim 11, wherein at  
2 least one of said at least two batteries is disposed  
3 externally to said headband.

1           14. The headlight as recited in claim 11, wherein said  
2 at least two batteries further comprise means for replacing  
3 one of said at least two batteries without interrupting light  
4 output from said at least one LED disposed in said at least  
5 two lamp housings.

1           15. The headlight as recited in claim 11, wherein said  
2 at least two batteries further comprise means for regulating  
3 power from said at least two batteries to maintain  
4 substantially constant light output from said at least one LED  
5 disposed in said at least two lamp housings.

1           16. The headlight as recited in claim 2, further  
2 comprising cushioning means disposed proximate an inside  
3 surface of said headband.

1           17. A headlight for use by physicians comprising:

2                 a) an adjustable headband for placing on a user's  
3 head;

4                 b) at least two forward-facing lamp housings  
5 disposed adjacent one another proximate a central  
6 position on a front side of said headband;

7                 c) at least one light emitting diode (LED) disposed  
8 in each of said lamp housings; and

9                 d) a source of electrical power operatively  
10 connected to each of said at least one LED.

1           18. The headlight as recited in claim 17, wherein said  
2 at least two forward-facing lamp housings disposed adjacent  
3 one another proximate a central position on a front side of  
4 said headband are independently pivotally affixed thereto,  
5 whereby light output from each of said at least two LEDs in  
6 said lamp housings may be converged at a spot a predetermined  
7 distance forward therefrom.

1           19. The headlight as recited in claim 18, wherein said  
2 source of electrical power comprises a rechargeable battery.

1           20. The headlight as recited in claim 19, wherein said  
2 source of electrical power comprises at least one rechargeable  
3 battery, said at least one rechargeable battery disposed in at  
4 least one of the locations: affixed to said headband, and  
5 located externally to said headband.

1           21. The headlight as recited in claim 20, further  
2 comprising means for controlling light output from at least  
3 one of said LEDs.

1           22. The headlight as recited in claim 21, wherein said  
2 means for controlling light output from at least one of said  
3 LEDs comprises at least one of the devices: a switch, means  
4 for varying the intensity of said at least one LED.